Vivitar®

MagnaCam 1025x1 Digital Camera/Binocular

INSTRUCTION MANUAL

Contents

1.	Introduction	3
2.	Specifications	5
3.	Operation	9
4.	Software Installation	15
5.	Maintenance	17

1. Introduction

Vivitar MagnaCam 1025x1 is a unique combination of a binocular and digital camera. It is designed for simple operational utility with these features:

- Fully functional binocular
- Integral Digital Camera offering:
  - Digital-still image capture of the scene
  - Continuous shooting (movie) mode – up to 180 seconds
  - USB Connectivity to your computer
  - PC/Web cam mode (for PC users)
  - Self-Timer with 10 second delay
  - Automatic exposure and white balance control
  - Automatic Power-off/Power Management

Note: As a digital camera, the MagnaCam connects to your computer as a USB mass-storage device. The memory of the MagnaCam appears as a removable disk to your computers operating system.

1.1 Package Contents

The Vivitar MagnaCam Digital Binocular kit typically includes the following items:

1. Digital camera/binocular
2. Binocular carrying pouch
3. Binocular neck strap
4. Two AAA batteries
5. Cleaning cloth
6. CD ROM(s) with application software
7. USB cable
8. Lens hood
9. Instruction Manual*
10. Warranty card

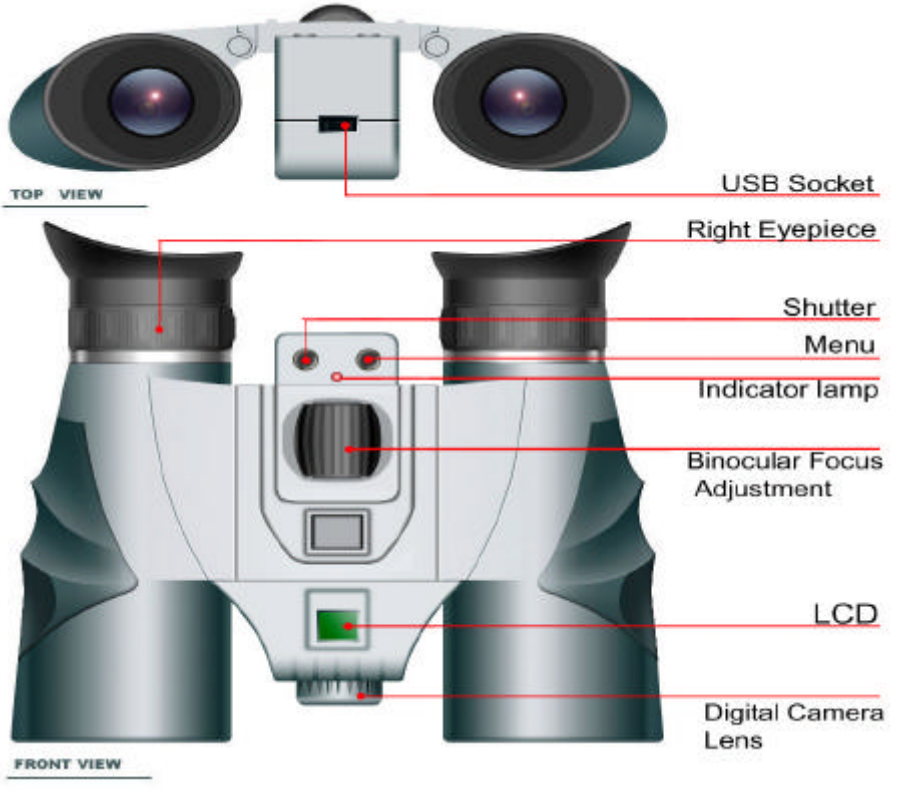
Please note that inclusions and accessories will vary depending upon your retailer.

* Updates to this Product User Manual will be available on the Vivitar website at www.vivitar.com

2. Specifications – MagnaCam 1025x1

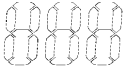
Digital Camera	
Image Resolution (still images)	High = 1280x1024(Hr), Low = 640×480 (Lr)
Image Storage	62 images (High res), 300 images (Low res)
Internal Memory	16 MB (15 MB available for image storage)
Lens Aperture	F/4 fixed focus lens
Focus Length	33 mm (35 mm equivalence = 154 mm)
Angle of View (degrees)	Horizontal: +/- 5.75, Vertical: +/- 4.60
Range of Focus	30 feet to infinity
Exposure & White Balance	Automatic
Power	2 x AAA batteries
Binocular	
Magnification	10X
Angle of View (degrees)	± 3.15
Objective Lens Diameter	25 mm
Nearest Observing Distance	6 meters (20 feet)
Exit Pupil Distance & Diameter	10 mm, 2.5 mm
Product Dimension Size	135 x 130 x 50 mm (5.3 x 5 x 2 inches)
Weight (without batteries)	340 grams (12 ounces)

2.1 Product Features:



2.2 LCD Display

Digital camera modes and functions are presented on the information LCD display on the top of the binocular frame. Press and hold the **Menu** button for three seconds to power-on the camera. The camera will beep as it powers-up. The camera will display the current resolution setting (example: Hi), and the current number of images that you had taken. Press the **Menu** button (repeatedly) to scroll through the digital camera options. The meaning of each symbol is as follows:

Display	Meaning	Operation
	Number of images taken	Press **Shutter** to take one picture, the counter will increase by one
	Self-timer	Press **Shutter** to invoke 10-second self-timer. The camera beeps and LED blinks.
	Movie Capture	Press **Shutter** to begin Movie capture, LED flashes. Press **Shutter** again to stop Movie capture
	Clear All Images	To delete all images in memory, Press **Shutter** once to start deletion, the LCD will blink. Press **Shutter** again to confirm your decision – red LED blinks once and the camera beeps once to confirm.

	Clear (delete) Last image	Press **Shutter** to delete the last image. The counter will decrease by one.
	Resolution setting	Press **Shutter** to toggle between High Res (1280 x 1024) and Low Res (640 x 480)
	PC Camera mode	Press **Shutter** to toggle between PC camera and USB mode

Note: The sequence of the digital camera menu presentation is the same as this table. When the batteries are low, the LCD display will blink and the camera will automatically turn off.

3. Binocular Operation

Adjusting the Pupil Distance

Hold the two barrels of the binocular in each hand. Pull the barrels together or apart until you see a single circular field with both eyes. This is the best inter-pupillary distance for observation.

Focusing the Binocular

1. Close your right eye and look through the binocular at an object. Rotate the Center Focus Knob until the object is sharp and clear to your left eye. At this point the object is in focus for your left eye.
2. Close your left eye and look through the binocular at the same object with your right eye. Rotate the Diopter ring until the object is sharp and clear. At this point the object is in focus for both eyes.

After the diopter setting is made, you may focus upon any object using the Center Focus Knob.

Rubber Eyecups

Without eyeglasses, place your eyes against the rubber eyecups while observing through the binocular. For best results with eyeglasses, fold down the rubber eyecups and place your glasses directly against the rubber eyepieces while observing through the binocular.

Caution: Never observe or shoot into the Sun.

3.1 Digital Camera Operation

The MagnaCam 1025x1 digital camera has two imaging modes: still image mode, and movie mode.

3.1.1 Still Image Mode (for shooting individual frames) -

- Press the **Menu** button to turn on the camera and observe the LCD display. If there is no symbol on the LCD, the battery must be replaced.
- Make camera adjustments as described in section 2.2.
- Look through the binocular and locate an object to shoot.
- Press the **Shutter** button to capture an image.
- Note that the camera has automatic power-off function. It is suggested that you select an object through the binocular before you turn on the camera.
- Confirm that your image was stored. The image counter in the LCD display will decrement by one after an image is captured.
- You can delete one or all the previous images at any time.
- Still Images are stored in JPG file format, in camera memory.

Note: The camera performs best with good lighting conditions. Avoid shooting in conditions of strong back lighting, use lens hood in strong lighting conditions.

3.1.2 Self-Timer Shooting -

- Press **Menu** until appears in the LCD display.
- Press the **Shutter** button. The LCD will countdown, the LED will flash, and the camera will beep for 10 seconds.

3.1.3 Movie Shooting -

- Press **Menu** until appears in the LCD display.
- View the object through the binocular.
- Press and hold the **Shutter** button to begin movie capture. Release the **Shutter** button to stop movie capture.
- Note: Hold the camera steady in movie mode.
- The maximum length of a movie is 180 seconds.
- Movies are stored in AVI file format, in camera memory.
- To view your images use Windows Media Player or Apple QuickTime.
- Movies do not include sound. (Silent video)

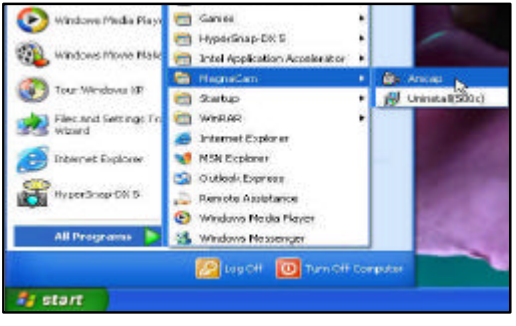
3.1.4 Downloading Images -

- If your PC operating system is Win98, you must install the USB driver before downloading images. To install the USB driver, insert the Driver CD, and click on "USBsetup" to start auto-run installation.
- Your still Images and movie clips can be transferred to your computer using the USB cable.
- Your computer will automatically recognize the camera as a USB mass-storage device. The memory of the MagnaCam appears as a removable disk to your computers operating system.
- The camera's memory will appear as an icon similar to a hard disk on your desktop (Mac OS), or under My Computer (Windows). Windows 98 users will need a driver.
- Double click the camera drive icon and locate the folder "DCIM".
- Double click to open the DCIM folder to find another folder, "100media".
- Open the 100media folder to find your still images (JPG files) and movies (AVI files).
- Copy (or move) your images to a folder on your computer hard drive.
- After successfully transferring images to your computer, delete (clear) the images from camera memory so that you may capture more images.

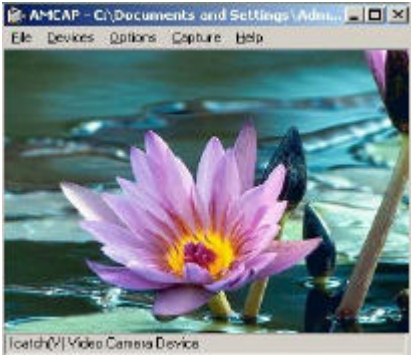
Note: After transferring images to your computer, delete the images from camera memory so that you may capture more images.

3.1.5 PC/ Bino web Cam Mode -

- PC users may use their MagnaCam as a PC/Bino Web cam.
- To use your MagnaCam as a PC/web cam you must first install the camera video drivers from the CD ROM. (Applies to all version of Windows).
- Turn on the camera and press the Menu button until “PC” appears in the LCD display. Using the USB cable, connect your MagnaCam to your PC.
- Note: If you have not already loaded the video drivers your computer will prompt you to do so at this time. Follow the on-screen instructions.
- Once the drivers are loaded and the MagnaCam is connected to your PC (in PC mode), you may view live video from your binocular.
- From the Windows desktop, click on Start, Programs, MagnaCam, PCCam, PCCam is a small utility that will allow you to see live video from the MagnaCam.



- Live Video will appear in the PCCam window:



Note: The minimum focus for the camera is 30 feet. Objects closer than 30 feet will appear unfocused.

Computer System Requirements:

Your digital camera images can be transferred to you computer for viewing and processing. As a minimum your computer should have:

- Windows 98/Me/2000/XP
- 200 MHz processor
- 128 MB RAM
- CD-ROM drive
- Available USB port
- 60MB available hard disk space

Precautions and Warnings:

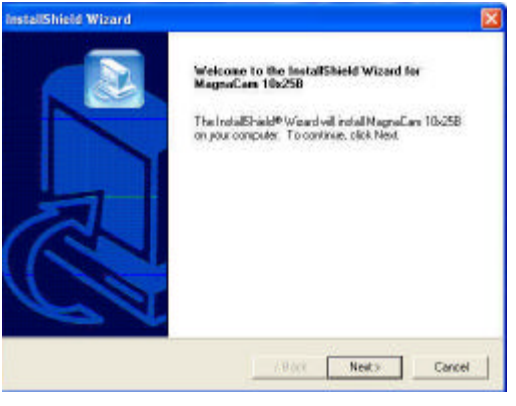
- **WARNING:** Handling the USB cable on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***
- Never operate this camera/binocular while driving a vehicle. This may cause a traffic accident.
- Remove the batteries if the camera will not be used for an extended period of time. The batteries may leak and cause a fire, injury or soiling of the battery compartment. If the batteries leak, clean and wipe the battery compartment carefully and install new batteries. Wash your hands carefully if you touch the battery fluid.

4. Software Installation

Software and drivers should be installed **before** connecting the MagnaCam to your PC for the first time.

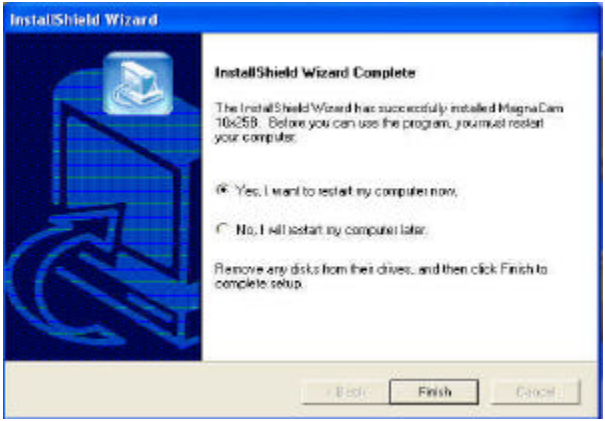
- Windows users should insert the enclosed CD into your computers CD-ROM drive.
- The CD should run automatically. If not, go to My Computer and click on the CD-ROM icon. Then, double click on the file "MagnaCamsetup.exe" to start the installation program.
- Follow the screen instructions:

- The welcome Screen appears. Click "Next" to continue.


InstallShield Wizard
Welcome to the InstallShield Wizard for MagnaCam 10x25B
The InstallShield® Wizard will install MagnaCam 10x25B on your computer. To continue, click Next.
< Back
Next >
Cancel

- The installer will copy the necessary files.

- Click " Finish " to complete the installation and restart your PC.


InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed MagnaCam 10x25B. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

5. Maintenance

Basic Maintenance

- Operation environments: 0 - 100 Deg F, 20 85% rel. humidity.
- Do not submerge this product in liquid or expose to direct steam.
- Do not place the product in the places of high temperature, direct sunlight, or dust.
- Do not modify the product or attempt repair, as this will lead to product malfunction.
- Remove the battery if the digital camera function will not be used for more than 10 days. Download your images before removing the batteries. (See note below.)
- To clean your digital binocular, use a mild detergent and soft damp cloth.

Important Note Regarding Image Storage

- The MagnaCam 1025x1 camera features SDRAM memory built-in. If battery power is removed for more than 30 seconds your images will be erased. Therefore, please download your images to your computer before taking out, or replacing, the battery. Never remove the battery while the camera is ON.